

What is claimed is:

1. A transparent conductive film comprising a compressed layer of conductive fine particles obtained by compressing a layer containing conductive fine particles that is formed by application onto a support,

wherein said compressed layer of the conductive fine particles contains a resin at the time of compression, said resin being contained at an amount of 73 parts by volume or less with respect to 100 parts by volume of said conductive fine particles as represented by volume, and

said compressed layer of the conductive fine particles is impregnated with a transparent substance after compression.

2. The transparent conductive film according to claim 1, wherein said layer containing the conductive fine particles is formed by applying a dispersion liquid, which contains the conductive fine particles and the resin, onto the support and drying the liquid, said resin being contained at an amount of 73 parts by volume or less with respect to 100 parts by volume of said conductive fine particles in said dispersion liquid as represented by volume before dispersion.

3. The transparent conductive film according to claim 1, wherein said support is a film made of resin.

4. A method of producing a transparent conductive film, comprising the steps of:

applying a dispersion liquid on a support and drying the liquid, said dispersion liquid containing conductive fine particles and a resin, said resin being contained at an amount of 73 parts by volume or less with respect to 100 parts by volume of said conductive fine particles in said dispersion liquid as represented by volume before dispersion, thereby to form a layer containing the conductive fine particles; and then

compressing said layer containing the conductive fine particles to form a compressed layer of the conductive fine particles; and further

impregnating said formed compressed layer of the conductive fine particles with a transparent substance.

5. The method of producing a transparent conductive film according to claim 4, wherein said layer containing the conductive fine particles is compressed at a compression force of at least 44 N/mm².

6. The method of producing a transparent conductive film according to claim 4, wherein said layer containing the conductive fine particles is compressed at such a temperature that said support is not deformed.

7. The method of producing a transparent conductive film according to claim 4, wherein said layer containing the conductive fine particles is compressed using a roll press machine.